



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,729	03/30/2001	Yuji Sato	108842	4738
25944	7590	11/04/2004	EXAMINER	
OLIFF & BERRIDGE, PLC			DU, THUAN N	
P.O. BOX 19928			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22320			2116	

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Refile

Office Action Summary

Application No.	Applicant(s)	
09/820,729	SATO, YUJI	
Examiner	Art Unit	
Thuan N. Du	2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 August 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,3,4,6-9,11,12 and 14-17 is/are rejected.

7) Claim(s) 2,5,10 and 13 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) & _____
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

1. It is hereby acknowledged that the following papers have been received and placed of record in the file: Amendment filed on 8/4/04.
2. Claims 1-17 are present for examination.
3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

4. Claims 1, 3, 4, 6-9, 11, 12 and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admission of prior art [AAPA] and Servilio et al. [Servilio] (U.S. Patent No. 6,169,889).
5. Regarding claims 1, 4, 7, 9, 12 and 15, AAPA teaches a data transfer device that transfers data, via a plurality of signal lines, comprising a data transfer timing signal output device that outputs a timing signal for the data transfer for each of the plurality of signal lines [application's specification, p. 1, lines 8-9, 27-28]. AAPA does not teach a frequency of the timing signal can be randomly changed.

Servilio teaches a data transfer system in which a frequency of the timing signal is changed randomly for each of the plurality of signal lines without becoming a specific cycle, so as to delimit an energy density in the plurality of signal lines [col. 4, lines 9-15, 38-54; col. 5, lines 12-16].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of AAPA to randomly change the frequency of timing signal as taught by Servilio. The modification would increase the reliability of the system because the radio frequency interference (RFI) is reduced.

6. Regarding claims 3, 6, 8, 11, 14 and 16, AAPA teaches a flat harness connects the data transfer device to another device to which the data is transferred [application's specification, p. 1, lines 10-14].

7. Regarding claim 4, Servilio further teaches that the system including a transfer clock generating device that generates a transfer clock that determines a timing for the data transfer, based on the system clock [col. 4, lines 9-11].

8. Regarding claim 7, Servilio further teaches that the system including a delayed transfer clock generating device [Fig. 13].

9. Regarding claims 9, 12 and 15, Servilio does not teach the data transfer device is a printing device. However, one of ordinary skill in the art would have recognized that the teachings of Servilio could be applicable in any device, which produces RFI, including a printing device taught by AAPA.

10. Regarding claim 17, since the claim recites method of operating of the apparatus defined in the apparatus claims, it is rejected accordingly based on the rejection of the apparatus claims.

Allowable Subject Matter

11. Claims 2, 5, 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday and Wednesday-Friday: 10:00 AM - 8:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H. Browne can be reached on (571) 272-3670.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (703) 872-9306.



Thuan N. Du
October 29, 2004